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PTO/SB/08B (10-01)

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Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/888,291		
		Filing Date	June 21, 2001		
		First Named Inventor	Gerald P. Roston		
		Art Unit	2837		
		Examiner Name	Bentsu Ro		
Sheet	3	of	5	Attorney Docket Number	IMM070A.RE

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.	
		IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp 287-292, 1993.	
		RUSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, May 1990.	
		BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985.	
		JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990.	
		BURDEA et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, 05/02/1993.	
Ro		SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. MPO-17851; JPL Case No. 5348, pp. 1-4, 08/15/1989.	
		OUH-YOUNG, "Force Display in Molecular Docking," Order No. 9034744, p. 1-369, 1990.	
		TADROS, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators, MIT Archive © Massachusetts Institute of Technology, pp. 1-88, February 1990.	
		CALDWELL et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993.	
		ADELSTEIN, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, 1992.	
		GOTOW et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337, NO DATE.	
		STANLEY et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, Advances in Robotics, pp. 55-61, ASME 1992.	
		RUSO, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992.	

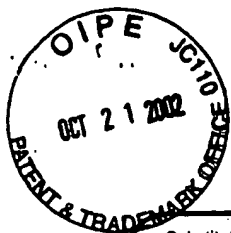
Examiner Signature	Bentsu Ro	Date Considered	12/11/02
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2

of 5

**Complete if Known**

Application Number	09/888,291
Filing Date	June 21, 2001
First Named Inventor	Gerald P. Roston
Art Unit	2837
Examiner Name	Bentsu Ro
Attorney Docket Number	IMM070A.RE

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
Ro		6,422,941	7/23/2002	Thomer et al.	
		4,484,117	8/7/1984	Forest	
		5,022,384	6/11/1991	Freels	
		5,575,781	11/19/1996	Hajianpour	
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		5,175,459	12/29/1992	Danial et al.	
		5,283,970	2/8/1994	Aigner	
		4,262,549	4/21/1981	Schwellenbach	
		4,333,070	6/1/1982	Barnes	
		5,165,897	11/24/1992	Johnson	
		4,484,191	11/20/1984	Vavra	
		5,436,622	7/25/1995	Gutman et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
Ro	BW	EP	EP0349086		1/3/1990	Visser	

Examiner  
Signature

Bentsu Ro

Date  
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12/11/02

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

## **Complete if Known**

Application Number	09/888,291
Filing Date	June 21, 2001
First Named Inventor	Roston, Gerald, et al.
Group Art Unit	2837
Examiner Name	Ro, Bentsu
Attorney Docket Number	IMM070A.RE

## **U.S. PATENT DOCUMENTS**

Examiner	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
Ro	1	6,111,577	8/29/2000	Ziles, et al.	
Ro	2	6,219,034	7/23/2002	Elbing, et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
Ro	3	JP	01-003884		7/19/1990	Taito Corporation	
Ro	4	JP	02-109714		1/13/1992	Epoch Co., et al.	
Ro	5	JP	04-007371		8/3/1993	Taito Corporation	
Ro	6	JP	05-193882		1/27/1995	Sega Corporation	

## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
Ro	7	"Taking a Joystick Ride", Computer Currents, Tim Scannell, Nov. 1994, Boston Edition, Vol. 9 No. 11
Ro	8	"Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, 26 pages, July 1, 1997; Revised January 28, 2002.

Examiner Signature	Bentsu Ro	Date Considered	3/18/2003
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